



AFCTN Test Report

94-069

AFCTB-ID
94-048



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TMSS Parsing Test

MIL-M-5096E Functional Check Flight

Document Type Definition

MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

17 May 1994



Prepared for
Electronic Systems Center
Air Force CALS Program Office
HQ ESC/AV-2
4027 Colonel Glenn Hwy Suite 300
Dayton OH 45431-1672

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For:
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Quick Short Test Report

17 May 1994

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Air Force CALS Test Bed

Notification of Test Results

17 May 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

MAXIMA Corporation

Identified as follows:

Title:	MIL-M-5096E, Functional Check Flight DTD Parsing Test
Program:	DISA
Program Office:	DISA
Contract No.:	DCA100-93-D-0065
QSTR No.:	AFCTB-ID 94-048

Received on the following media: **3.5" Diskette**

The results of the AFCTB Quick Short Test evaluation are as follows:

MIL-STD-1840A	Media Format:	N/A
MIL-D-28000A	IGES:	N/A
MIL-M-28001A	SGML:	Pass
MIL-R-28002A	Raster:	N/A
MIL-D-28003	CGM:	N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed
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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax using several commercial and public domain SGML parsers prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

2. Test Parameters

Test Plan: AFCTB 94-048

Date of Evaluation: 17 May 1994

Evaluator: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/AV-2P
4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator: Kay Hill
MAXIMA Corporation
2372 Lakeview Drive
Beavercreek OH 45431
(513) 427-5888

Data Description: Technical Manual Test
1 DTD

Data Source System:
Text/SGML
SOFTWARE
Unknown

Evaluation Tools Used:

MIL-M-28001 (SGML)
PC 486/50
Exoterica XGMLNormalizer v1.2e3.2
Exoterica Validator v2.2 exl
SoftQuad Author/Editor v2.1
McAfee & McAdam Sema Mark-it v2.3
Public Domain sgmls v1.1

Standards Tested: MIL-M-28001B

3. 1840A Analysis

3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A files. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]>" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-M-5096E, Appendix B, Functional Check Flight, called for a companion MIL-M-38784C DTD. MIL-M-38784C, Amendment three DTD, delivered on the same diskette as the DTD to be evaluated, was used. This DTD was used without change except to insert the location of the ISO character set files. The D096EC0.ORG was used without change except to point the the MIL-M-38784C DTD.

<!-- MIL-M-5096E Functional Check Flight DTD -->

D096EB0.ORG --> D096EC0.ORG --> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

Note 1. Entity parameters defined more than once is a valid SGML construct. The warnings in this analysis do not indicate any problems.

Note 2. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

4.1 Exoterica Validator

The DTD file was evaluated using the Exoterica Validator exl parser. The basic DTD was modified by placing the concrete syntax file and "<!DOCTYPE doc [" at the start, and the "]>" at the end. The parser reported 41 errors which related to the missing instance and are not considered error for this analysis.

The parser reported 64 total warnings of two types. The first type was a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 30,  
      used in "\xgml\9448.dtd", line 129:  
      A parameter entity name has been declared more than once.  
      The entity is "%bodyele".  
      <!ENTITY % bodyele "(testfltpref?, chapter+)">  
          ^^^^^^  
-->
```

The second type of warnings relate to elements defined but not used in any content model. See Note 2 above.

```
<!-- **Warning** in "\xgml\9448.dtd", line 141:  
      An element is not allowed in the document instance because it does not  
      appear in any accessible content model or it is completely excluded.  
      The element is "ADDRESS".  
-->
```

4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start, and "]>" to the end of the file. No errors or warnings were issued by this utility.

4.3 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start, and "]>" to the end of the file. The base line D096EC0.ORG and D784CB0.A3 files were used. The only change made to this file was to save it using UNIX format to remove the DOS end of file character. One error was reported and this relates to a missing instance. This is not considered an error for this report.

4.4 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* parser version 1.0. The file was modified by adding the "<!DOCTYPE doc [" to the start, and "]>" to the end of the file as stated in the comments in the DTD. The basic D096EC0.ORG and D784CB0.A3 files were used as the point to files. This file was modified by removing the start and end statements. This DTD remained modified to point to the ISO character sets. Twenty-four warnings were reported by the parser, all of which were duplicate definitions. See Note 1 above.

```
sgmls: In file included at \ws\9448.dtd, line 56:  
Warning at i:\dtd\9446.dtd, line 30 in declaration parameter 4:  
Duplicate specification occurred for "%bodyele"; duplicate  
ignored
```

The following is the command line used to parse the DTD.

```
C:\EN450>sgmls concrete.syn 9444.dtd -f9444.log -c9444.cap  
-s -u -r -l -g -d -p -e
```

4.5 SoftQuad Author/Editor

The DTD file was evaluated using SoftQuad's *Author/Editor* parser. The DTD was modified to point to the previously parsed basic 38784C.A3 DTD. This file had been set to point to the ISO character set. One error was reported during this operation. This product reported an ambiguous content model in the subfig element in the basic 38784C. DTD. The tag is shown below.

Error in Document Type Declaration at offset 2067 of the input stream, on line 1 of the document: Ambiguous content model.

An instance of element GRAPHIC could simultaneously match two or more tokens in the content model.

Error occurred in the content of parameter entity "m38784c".

```
<!ELEMENT subfig  - - ((graphic | macrograph) & figtable? &
                      legend?) >
<!ATTLIST subfig  %secur; >
```

SoftQuad has identified this as an error in their product that will be corrected in the next release of their software.

5. Conclusions and Recommendations

The file D096EB0.ORG, MIL-L-5096E, Appendix B, conforms to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate any syntactical variances, nor indicate any problem that would invalidate the effective application of this DTD.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 30,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%bodyele".
<!ENTITY % bodyele "(testfltpref?, chapter+)" >
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 32,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%idinf".
<!ENTITY % idinf "(tmidno, aircraftype, replnote?, distrib, authnot, pubdat
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 34,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%shorttitleuse".
<!ENTITY % shorttitleuse "ignore" >
   ^^^^^^^^^^

-->
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 42,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%shorttitle".
<!ENTITY % shorttitle " " >
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 44,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%chap".
<!ENTITY % chap "(title %shorttitle;, ((phase, phase+) | para0+))" >
   ^^^^

-->
<!-- **Warning** in "i:\dtd\9446.dtd" (entity "%m5096fcfc1"), line 46,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%frnt".
<!ENTITY % frnt "(idinfo)" >
   ^^^^

-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 37,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%shorttitleuse".
<!ENTITY % shorttitleuse "IGNORE" >
   ^^^^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 45,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%shorttitle".
<!ENTITY % shorttitle " " >
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 47,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%yesorno".
<!ENTITY % yesorno "NUMBER" >
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 50,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%itemid".
<!ENTITY % itemid
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 62,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%content".
<!ENTITY % content
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 71,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%bodyatt".
<!ENTITY % bodyatt
   ^^^^^^

-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 107,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%frnt".
<!ENTITY % frnt "(idinfo, warnpage?, chginssht?, lep, verstat?,
    ^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 111,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%idinf".
<!ENTITY % idinf "(tmidno+, pretmidno*, volnum?, docpartn?,
    ^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 138,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step1con".
<!ENTITY % step1con "(warning*, caution*, note*, para, note*),
    ^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 141,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step2con".
<!ENTITY % step2con "(warning*, caution*, note*, para, note*),
    ^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 144,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step3con".
<!ENTITY % step3con "(warning*, caution*, note*, para, note*),
    ^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 147,
    used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
    used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step4con".
<!ENTITY % step4con "(warning*, caution*, note*, para, note*),
    ^^^^^^^

-->
```

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 150,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step5con".
<!ENTITY % step5con "(warning*, caution*, note*, para, note*),
   ^^^^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 153,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step6con".
<!ENTITY % step6con "(warning*, caution*, note*, para, note*),
   ^^^^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 156,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%step7con".
<!ENTITY % step7con "(warning*, caution*, note*, para, note*)" >
   ^^^^^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 165,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%bodyele".
<!ENTITY % bodyele "(chapter, chapter+, ddchapter?)" >
   ^^^^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 185,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%chap".
<!ENTITY % chap "({titles; , ((section, section+) | para0+),
   ^^^

-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 206,
   used in "i:\dtd\9446.dtd" (entity "%m5096fcfcl"), line 99,
   used in "\xgml\9448.dtd", line 129:
A parameter entity name has been declared more than once.
The entity is "%sect".
<!ENTITY % sect "({titles; , para0+)" >
   ^^^

-->
```

```
<!-- **Warning** in "\xgml\x9448.dtd", line 141:  
An element is not allowed in the document instance because it does not  
appear in any accessible content model or it is completely excluded.  
The element is "ADDRESS".  
-->
```

<<<< EXTRA LINES REMOVED FROM REMAINDER OR THIS TYPE ERROR >>>>

```
The element is "AIRCRAFTYPE".  
The element is "APPENDIX".  
The element is "BRK".  
The element is "CHGINSSHT".  
The element is "CHGLIST".  
The element is "CHGREC".  
The element is "DDCHAPTER".  
The element is "DDDESC".  
The element is "DDINDEX".  
The element is "DDINTRO".  
The element is "DDLIST".  
The element is "DDSHEET".  
The element is "DOC".  
The element is "DOFCFCL".  
The element is "DOCPART".  
The element is "DOCPARTN".  
The element is "FOLDSECT".  
The element is "GLOSSARY".  
The element is "INDEX".  
The element is "INSERTPG".  
The element is "INTRO".  
The element is "MAINTLVL".  
The element is "MFR".  
The element is "PGBRK".  
The element is "PGNO".  
The element is "PRECAUT".  
The element is "PREFACE".  
The element is "REAR".  
The element is "REMOVEPG".  
The element is "REPLNOTE".  
The element is "REVNUM".  
The element is "SAFESUM".  
The element is "SEAL".  
The element is "SHORTTITLE".  
The element is "STITLE".  
The element is "VOLNOT".  
The element is "VOLNUM".  
The element is "VOLUME".  
The element is "WARNPAGE".  
-->
```

```
<!-- Capacity points/limits:  
TOTALCAP =108107/200000  
ENTCAP =12832/200000  
ENTCHCAP =12691/70000  
ELEMCAP =5056/70000  
GRPCAP =26432/70000  
EXGRPCAP =704/70000  
EXNMCAP =1184/70000  
ATTCAP =31296/200000  
ATTCHCAP =789/70000  
AVGRPCAP =16864/70000  
NOTCAP =96/70000  
NOTCHCAP =163/70000  
IDCAP =0/70000  
IDREFCAP =0/70000  
MAPCAP =0/70000  
LKSETCAP =0/70000  
LKNMCAP =0/70000
```

-->

<<<< ERRORS FROM THIS POINT ON RELATE TO NO DOCUMENT INSTANCE AND ARE NOT CONSIDERED
FOR THIS REPORT >>>>

```
<!-- **Error** in "\xgml\9448.dtd", line 142:  
The document instance must consist of at least one tag or data character.  
The following element can start: "DOCFCF".
```

-->

<<<< PART OF LOG FILE REMOVED HERE >>>>

```
<!-- **Error** in "\xgml\9448.dtd", line 142:  
An end tag that has been declared inomissible ("") must not be omitted.  
The element is "DOCFCF".
```

-->

```
<!-- Capacity points/limits:  
TOTALCAP =108107/200000  
ENTCAP =12832/200000  
ENTCHCAP =12691/70000  
ELEMCAP =5056/70000  
GRPCAP =26432/70000  
EXGRPCAP =704/70000  
EXNMCAP =1184/70000  
ATTCAP =31296/200000  
ATTCHCAP =789/70000  
AVGRPCAP =16864/70000  
NOTCAP =96/70000  
NOTCHCAP =163/70000  
IDCAP =0/70000
```

```
IDREFCAP =0/70000
MAPCAP   =0/70000
LKSETCAP =0/70000
LKNMCAP  =0/70000

-->
<!-- 41 errors and 64 warnings reported. -->
```

6.2 Exoterica XGMLNormalizer Parser

No reported errors or warnings.

6.3 Public Domain sgmls Log

```
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 30 in declaration parameter 4:
      Duplicate specification occurred for "%bodyele"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 32 in declaration parameter 4:
      Duplicate specification occurred for "%idinf"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 34 in declaration parameter 4:
      Duplicate specification occurred for "%shorttitleuse"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 42 in declaration parameter 4:
      Duplicate specification occurred for "%shorttitle"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 44 in declaration parameter 4:
      Duplicate specification occurred for "%chap"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      Warning at i:\dtd\9446.dtd, line 46 in declaration parameter 4:
      Duplicate specification occurred for "%frnt"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      In file included at i:\dtd\9446.dtd, line 99:
      Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:
      Duplicate specification occurred for "%shorttitleuse"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      In file included at i:\dtd\9446.dtd, line 99:
      Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:
      Duplicate specification occurred for "%shorttitle"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
      In file included at i:\dtd\9446.dtd, line 99:
      Warning at i:\dtd\784c.dtd, line 47 in declaration parameter 4:
      Duplicate specification occurred for "%yesorno"; duplicate ignored
sgmls: In file included at \ws\9448.dtd, line 56:
```

```
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 60 in declaration parameter 4:  
Duplicate specification occurred for "%itemid"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 69 in declaration parameter 4:  
Duplicate specification occurred for "%content"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 80 in declaration parameter 4:  
Duplicate specification occurred for "%bodyatt"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:  
Duplicate specification occurred for "%frnt"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 115 in declaration parameter 4:  
Duplicate specification occurred for "%idinf"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 139 in declaration parameter 4:  
Duplicate specification occurred for "%step1con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 142 in declaration parameter 4:  
Duplicate specification occurred for "%step2con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 145 in declaration parameter 4:  
Duplicate specification occurred for "%step3con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 148 in declaration parameter 4:  
Duplicate specification occurred for "%step4con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 151 in declaration parameter 4:  
Duplicate specification occurred for "%step5con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 154 in declaration parameter 4:  
Duplicate specification occurred for "%step6con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 156 in declaration parameter 4:  
Duplicate specification occurred for "%step7con"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:
```

```
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:  
Duplicate specification occurred for "%bodyele"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 186 in declaration parameter 4:  
Duplicate specification occurred for "%chap"; duplicate ignored  
sgmls: In file included at \ws\9448.dtd, line 56:  
In file included at i:\dtd\9446.dtd, line 99:  
Warning at i:\dtd\784c.dtd, line 206 in declaration parameter 4:  
Duplicate specification occurred for "%sect"; duplicate ignored
```

6.4 Sema Mark-it Log

```
<!--*** file:C:\XGML\9448.DTD line:142 pos:4150  
Document entity ended illegally  
(or illegal end of entity in the main document)-->
```

6.5 SoftQuad Author/Editor Log

```
Error in Document Type Declaration at offset 1105 of the input stream,  
on line 1 of the document: Ambiguous content model.  
An instance of element FIGTABLE could simultaneously match two or more  
tokens in the content model.  
Error occurred in the content of parameter entity "m38784c".
```

Below is the area in the DTD that was addressed.

```
<!ELEMENT subfig      - - ((graphic | macrograph) & figtable? &  
                           legend?) >  
<!ATTLIST subfig      %secur; >
```